

Marschel

CRF Error Corrected by th STIC Syst Branch

1634

Serial Number: 08/319411

CRF Processing Date: 3/29/99  
Edited by: [signature]  
Verified by: [signature] (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

☐ Edited the Current Application Data section with the actual current number. The number reported by the applicant was ☐ the prior application data; or ☐ other

ENTERED

- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☒ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: 39

☒ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 66

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:

☐ Deleted extra, invalid, headings used by an applicant, specifically:

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as

☒ Inserted mandatory headings, specifically: (i) SEQ. CHARACTER: (Seq 85)

☐ Corrected an obvious error in the response, specifically:

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

☐ Other:

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/31/1999  
TIME: 12:01:57

INPUT SET: S31238.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

ENTERED

## (1) General Information:

(i) APPLICANT: Nielsen, et al.

(ii) TITLE OF INVENTION: PEPTIDE NUCLEIC ACID CONJUGATES

(iii) NUMBER OF SEQUENCES: 148

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &  
Norris

(B) STREET: One Liberty Place 46th. Floor

(C) CITY: Philadelphia

(D) STATE: PA

(E) COUNTRY: USA

(F) ZIP: 19103

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/319,411

(B) FILING DATE: 06-OCT-94

(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/108,591

(B) FILING DATE: 27-AUG-1993

(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: EP/01219

(B) FILING DATE: 22-MAY-1992

(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/088,658

(B) FILING DATE: 02-JUL-1993

(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/31/1999  
TIME: 12:01:57

INPUT SET: S31238.raw

47 (A) APPLICATION NUMBER: US 08/088,661  
48 (B) FILING DATE: 02-JUL-1993  
49 (C) CLASSIFICATION:  
50

## (vii) PRIOR APPLICATION DATA:

51 (A) APPLICATION NUMBER: US 08/275,951  
52 (B) FILING DATE: 15-JUL-1994  
53 (C) CLASSIFICATION:  
54  
55

## (viii) ATTORNEY/AGENT INFORMATION:

56 (A) NAME: Straher, Michael P.  
57 (B) REGISTRATION NUMBER: 38,325  
58 (C) REFERENCE/DOCKET NUMBER: ISIS-1158  
59  
60

## (ix) TELECOMMUNICATION INFORMATION:

61 (A) TELEPHONE: 215-568-3100  
62 (B) TELEFAX: 215-568-3439  
63  
64  
65

## (2) INFORMATION FOR SEQ ID NO:1:

## (i) SEQUENCE CHARACTERISTICS:

66 (A) LENGTH: 4 base pairs  
67 (B) TYPE: nucleic acid  
68 (C) STRANDEDNESS: single  
69 (D) TOPOLOGY: linear  
70  
71  
72  
73

## (ii) MOLECULE TYPE: nucleic acid

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

74 GCAT 4  
75  
76  
77

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

78 (A) LENGTH: 4 base pairs  
79 (B) TYPE: nucleic acid  
80 (C) STRANDEDNESS: single  
81 (D) TOPOLOGY: linear  
82  
83  
84  
85  
86  
87  
88

## (ii) MOLECULE TYPE: nucleic acid

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

89 GCAT 4  
90  
91  
92

## (2) INFORMATION FOR SEQ ID NO:3:

## (i) SEQUENCE CHARACTERISTICS:

93 (A) LENGTH: 4 base pairs  
94  
95  
96  
97  
98  
99

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/31/1999  
TIME: 12:01:57

INPUT SET: S31238.raw

100 (B) TYPE: nucleic acid  
101 (C) STRANDEDNESS: single  
102 (D) TOPOLOGY: linear  
103  
104 (ii) MOLECULE TYPE: nucleic acid  
105  
106 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
107  
108 GCAT  
109 4  
110  
111 (2) INFORMATION FOR SEQ ID NO:4:  
112  
113 (i) SEQUENCE CHARACTERISTICS:  
114 (A) LENGTH: 4 base pairs  
115 (B) TYPE: nucleic acid  
116 (C) STRANDEDNESS: single  
117 (D) TOPOLOGY: linear  
118  
119 (ii) MOLECULE TYPE: nucleic acid  
120  
121 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
122  
123 GCAT  
124 4  
125  
126 (2) INFORMATION FOR SEQ ID NO:5:  
127  
128 (i) SEQUENCE CHARACTERISTICS:  
129 (A) LENGTH: 4 base pairs  
130 (B) TYPE: nucleic acid  
131 (C) STRANDEDNESS: single  
132 (D) TOPOLOGY: linear  
133  
134 (ii) MOLECULE TYPE: nucleic acid  
135  
136 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
137  
138 GCAT  
139 4  
140  
141 (2) INFORMATION FOR SEQ ID NO:6:  
142  
143 (i) SEQUENCE CHARACTERISTICS:  
144 (A) LENGTH: 4 base pairs  
145 (B) TYPE: nucleic acid  
146 (C) STRANDEDNESS: single  
147 (D) TOPOLOGY: linear  
148  
149 (ii) MOLECULE TYPE: nucleic acid  
150  
151 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
152

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/31/1999  
TIME: 12:01:58

INPUT SET: S31238.raw

153 GCAT  
154  
155  
156  
157 (2) INFORMATION FOR SEQ ID NO:7:  
158  
159 (i) SEQUENCE CHARACTERISTICS:  
160 (A) LENGTH: 4 base pairs  
161 (B) TYPE: nucleic acid  
162 (C) STRANDEDNESS: single  
163 (D) TOPOLOGY: linear  
164  
165 (ii) MOLECULE TYPE: nucleic acid  
166  
167 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
168  
169 GCAT  
170  
171  
172 (2) INFORMATION FOR SEQ ID NO:8:  
173  
174 (i) SEQUENCE CHARACTERISTICS:  
175 (A) LENGTH: 4 base pairs  
176 (B) TYPE: nucleic acid  
177 (C) STRANDEDNESS: single  
178 (D) TOPOLOGY: linear  
179  
180 (ii) MOLECULE TYPE: nucleic acid  
181  
182 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
183  
184 GCAT  
185  
186  
187 (2) INFORMATION FOR SEQ ID NO:9:  
188  
189 (i) SEQUENCE CHARACTERISTICS:  
190 (A) LENGTH: 4 base pairs  
191 (B) TYPE: nucleic acid  
192 (C) STRANDEDNESS: single  
193 (D) TOPOLOGY: linear  
194  
195 (ii) MOLECULE TYPE: nucleic acid  
196  
197 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
198  
199 GCAT  
200  
201  
202 (2) INFORMATION FOR SEQ ID NO:10:  
203  
204 (i) SEQUENCE CHARACTERISTICS:  
205 (A) LENGTH: 4 base pairs

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/31/1999  
TIME: 12:01:58

INPUT SET: S31238.raw

206 (B) TYPE: nucleic acid  
207 (C) STRANDEDNESS: single  
208 (D) TOPOLOGY: linear  
209  
210 (ii) MOLECULE TYPE: nucleic acid  
211  
212 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
213  
214 GCAT  
215 4  
216  
217 (2) INFORMATION FOR SEQ ID NO:11:  
218  
219 (i) SEQUENCE CHARACTERISTICS:  
220 (A) LENGTH: 4 base pairs  
221 (B) TYPE: nucleic acid  
222 (C) STRANDEDNESS: single  
223 (D) TOPOLOGY: linear  
224  
225 (ii) MOLECULE TYPE: nucleic acid  
226  
227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
228  
229 GCAT  
230 4  
231  
232 (2) INFORMATION FOR SEQ ID NO:12:  
233  
234 (i) SEQUENCE CHARACTERISTICS:  
235 (A) LENGTH: 4 base pairs  
236 (B) TYPE: nucleic acid  
237 (C) STRANDEDNESS: single  
238 (D) TOPOLOGY: linear  
239  
240 (ii) MOLECULE TYPE: nucleic acid  
241  
242 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:  
243  
244 GCAT  
245 4  
246  
247 (2) INFORMATION FOR SEQ ID NO:13:  
248  
249 (i) SEQUENCE CHARACTERISTICS:  
250 (A) LENGTH: 4 base pairs  
251 (B) TYPE: nucleic acid  
252 (C) STRANDEDNESS: single  
253 (D) TOPOLOGY: linear  
254  
255 (ii) MOLECULE TYPE: nucleic acid  
256  
257 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:  
258

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/31/1999  
TIME: 12:01:59

INPUT SET: S31238.raw

## \*\*\*\*\* PREVIOUSLY ERRORED SEQUENCES - EDITED \*\*\*\*\*

633 (2) INFORMATION FOR SEQ ID NO:39:  
634  
635 (i) SEQUENCE CHARACTERISTICS:  
636 (A) LENGTH: 5 base pairs  
637 (B) TYPE: nucleic acid  
638 (C) STRANDEDNESS: single  
639 (D) TOPOLOGY: linear  
640  
641 (ii) MOLECULE TYPE: nucleic acid  
642  
643 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:  
644  
645 TTCTT  
646

5

1034 (2) INFORMATION FOR SEQ ID NO:66:  
1035  
1036 (i) SEQUENCE CHARACTERISTICS:  
1037 (A) LENGTH: 12 base pairs  
1038 (B) TYPE: nucleic acid  
1039 (C) STRANDEDNESS: single  
1040 (D) TOPOLOGY: linear  
1041  
1042 (ii) MOLECULE TYPE: nucleic acid  
1043  
1044  
1045 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:  
1046  
1047 CCAGGCUCAG AT  
1048

12

1318 (2) INFORMATION FOR SEQ ID NO:85:  
1319  
1320 (i) SEQUENCE CHARACTERISTICS:  
1321 (A) LENGTH: 20 base pairs  
1322 (B) TYPE: nucleic acid  
1323 (C) STRANDEDNESS: single  
1324 (D) TOPOLOGY: linear  
1325  
1326 (ii) MOLECULE TYPE: nucleic acid  
1327  
1328 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:  
1329  
1330 CTGTCTCCAT CCTCTTCACT  
1331  
1332  
1333

20

PAGE: 7

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION US/08/319,411**

DATE: 03/31/1999  
TIME: 12:01:59

*INPUT SET: S31238.raw*

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/319,411**

DATE: 03/31/1999  
TIME: 12:01:59

*INPUT SET: S31238.raw*

Line	Error	Original Text
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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/29/1999  
TIME: 14:05:25

INPUT SET: S31238.raw

This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

## SEQUENCE LISTING

Does Not Comply  
Corrected Diskette Needed

## (1) General Information:

(i) APPLICANT: Nielsen, et al.

(ii) TITLE OF INVENTION: PEPTIDE NUCLEIC ACID CONJUGATES

(iii) NUMBER OF SEQUENCES: 148

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &  
Norris

(B) STREET: One Liberty Place 46th. Floor

(C) CITY: Philadelphia

(D) STATE: PA

(E) COUNTRY: USA

(F) ZIP: 19103

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/319,411

(B) FILING DATE: 06-OCT-94

(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/108,591

(B) FILING DATE: 27-AUG-1993

(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: EP/01219

(B) FILING DATE: 22-MAY-1992

(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/088,658

(B) FILING DATE: 02-JUL-1993

(C) CLASSIFICATION:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/29/1999  
TIME: 14:05:26

INPUT SET: S31238.raw

46 (vii) PRIOR APPLICATION DATA:  
47 (A) APPLICATION NUMBER: US 08/088,661  
48 (B) FILING DATE: 02-JUL-1993  
49 (C) CLASSIFICATION:  
50  
51 (vii) PRIOR APPLICATION DATA:  
52 (A) APPLICATION NUMBER: US 08/275,951  
53 (B) FILING DATE: 15-JUL-1994  
54 (C) CLASSIFICATION:  
55  
56 (viii) ATTORNEY/AGENT INFORMATION:  
57 (A) NAME: Straher, Michael P.  
58 (B) REGISTRATION NUMBER: 38,325  
59 (C) REFERENCE/DOCKET NUMBER: ISIS-1158  
60  
61 (ix) TELECOMMUNICATION INFORMATION:  
62 (A) TELEPHONE: 215-568-3100  
63 (B) TELEFAX: 215-568-3439  
64  
65

## ERRORED SEQUENCES FOLLOW:

633 (2) INFORMATION FOR SEQ ID NO:39:  
634  
635 (i) SEQUENCE CHARACTERISTICS:  
636 (A) LENGTH: 5 base pairs  
637 (B) TYPE: nucleic acid  
638 (C) STRANDEDNESS: single  
639 (D) TOPOLOGY: linear  
640  
641 (ii) MOLECULE TYPE: nucleic acid 39  
642  
--> 643 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7  
644  
645 TTCTT  
646

5

---

1034 (2) INFORMATION FOR SEQ ID NO:66:  
1035  
1036 (i) SEQUENCE CHARACTERISTICS:  
1037 (A) LENGTH: 12 base pairs  
1038 (B) TYPE: nucleic acid  
1039 (C) STRANDEDNESS: single  
1040 (D) TOPOLOGY: linear  
1041  
1042 (ii) MOLECULE TYPE: nucleic acid  
1043  
1044  
1045 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/319,411DATE: 03/29/1999  
TIME: 14:05:26

INPUT SET: S31238.raw

④/2

1046  
--> 1047 CCAGGCUCAG AT  
1048

---

1318 (2) INFORMATION FOR SEQ ID NO:85:  
1319

(i) SEQUENCE CHARACTERISTICS: E insert

--> 1320 (A) LENGTH: 20 base pairs  
--> 1321 (B) TYPE: nucleic acid  
--> 1322 (C) STRANDEDNESS: single  
--> 1323 (D) TOPOLOGY: linear  
1324

1325 (ii) MOLECULE TYPE: nucleic acid  
1326

--> 1327 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:  
1328

1329 CTGTCTCCAT CCTCTTCACT  
1330  
1331  
1332

20

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/319,411**DATE: 03/29/1999  
TIME: 14:05:26**INPUT SET: S31238.raw**

Line	Error	Original Text
643	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
1047	# of Sequences for line conflicts w/ running total	CCAGGCUCAG AT 4
1320	Unknown or Misplaced Identifier	(A) LENGTH: 20 base pairs
1321	Unknown or Misplaced Identifier	(B) TYPE: nucleic acid
1322	Unknown or Misplaced Identifier	(C) STRANDEDNESS: single
1323	Unknown or Misplaced Identifier	(D) TOPOLOGY: linear
1327	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:
1327	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85: